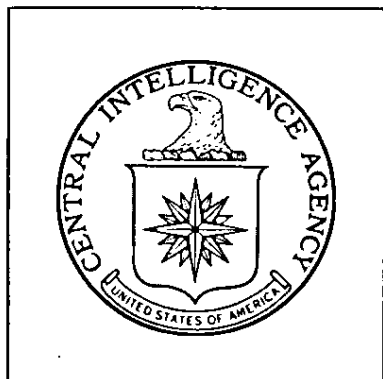


Top Secret



**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Selected Cement Plants

China

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RCS	13/0040/71
DATE	MAY 1971
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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report presents information on 45 major cement plants in China. It includes initial basic studies on four new plants -- at Kai-yuan, O-mei, Shen-yang, and Ting-shu-chen. Updates are provided on 34 plants. Seven other plants scheduled for updates were not seen on interpretable photography since the last report. The cut-off date for information in this report is February 1971.

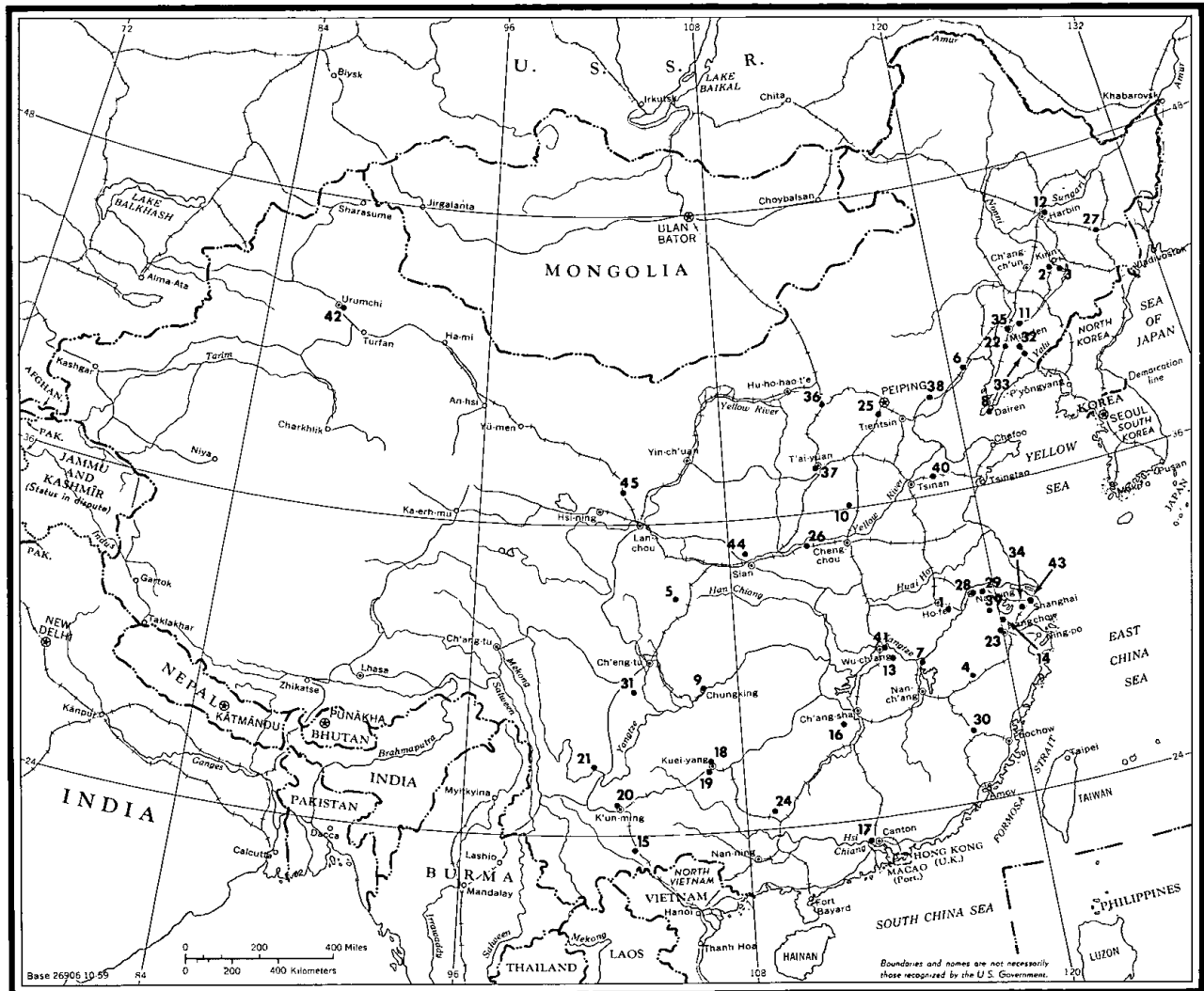
The plants studied contained a total of 106 rotary kilns. These include a new kiln at Chung-ching (Chungking) and seven kilns at the four new plants. The largest rotary cement kilns in China have been installed at the new O-mei plant. Other construction activities observed include materials for a new kiln at Wu-chang, two new stacks at Ta-tung, a new slurry tank at Chao-hsien, and new storage silos at Liao-yang.

During the period of this study, at least 54 and possibly 71 kilns were operating at a total of 32 plants.

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INTRODUCTION

This report presents information on the status of the following major cement plants in China (see Figure 1).

1. Chao-hsien Cement Plant.
2. Chi-lin (Kirin) Cement Plant.
3. Chi-lin Cement Plant 2.
4. Chiang-shan Cement Plant.
5. Chien-ko Cement Plant.
6. Chin-hsi Cement Plant.
7. Chiu-chiang Cement Plant.
8. Chou-shui-tzu Cement Plant.
9. Chung-ching (Chungking) Cement Plant.
10. Feng-feng Cement Plant.
11. Fu-shun Cement Plant.
12. Ha-erh-pin (Harbin) Cement Plant.
13. Huang-shih Cement Plant.
14. Hu-chou Cement Plant.
15. Kai-yuan Cement Plant.
16. Ku-shui Cement Plant.
17. Kuang-chou (Canton) Cement Plant.
18. Kuei-yang Cement Plant 2.
19. Kuei-yang Cement Plant 3.
20. Kun-ming Cement Plant.
21. Kuo-kuo Cement Plant.
22. Liao-yang Cement Plant.
23. Lin-ping Cement Plant.
24. Liu-chou Cement Plant.
25. Liu-li-ho Cement Plant.
26. Miao-tou-chai Cement Plant Shih-fu.
27. Mu-tan-chiang Cement Plant Wen-chuan.
28. Nan-ching (Nanking) Cement Plant Kiang-nan.
29. Nan-ching Cement Plant Lung-tan.
30. Nan-ping Cement Plant.
31. O-mei Cement Plant.
32. Pen-chi Cement Plant Kung-yuan.
33. Pen-chi Cement Plant South.
34. Shang-hai Cement Plant.
35. Shen-yang Cement Plant.
36. Ta-tung Cement Plant.
37. Tai-yuan Cement Plant.
38. Tang-shan Cement Plant Chi-hsin.
39. Ting-shu-chen Cement Plant.
40. Tzu-po Cement Plant Nan-ting.

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- 41. Wu-chang Cement Plant.
- 42. Wu-lu-mu-chi (Urumchi) Cement Plant.
- 43. Wu-sung Cement Plant.
- 44. Yao-hsien Cement Plant.
- 45. Yung-teng Cement Plant.

Requirement

COMIREX NO2
Support Number 429220

Document Reference

CIA RCS - 13/0031/70, Selected Cement Plants, China, May 1970,
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CIA RCS - 13/0145/69, Selected Cement Plants, China, June 1969,
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FIGURE 2. CHAO-HSIEN CEMENT PLANT

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chao-hsien Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RNK799988	31-37-20N 117-50-10E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0493-4HL, 4th ed, Apr 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

A new slurry tank has been constructed at Chao-hsien Cement Plant since February 1969, the date of the latest photography used in the previous report. The new tank is located at the west end of the kilns (see Figure 2).

Smoke was coming from at least one stack in December 1970 and this smoke obscured the other stack. At least one kiln was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chi-lin Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
52TCD030622	43-53-05N 126-32-30E	
MAP REFERENCE		
[REDACTED] . USATC, Series 200, Sheet M0290-3HL, 3rd ed, Jul 65, Scale 1:200,000		
(SECRET/ [REDACTED])		
LATEST IMAGERY USED		NEGATION DATE (If required)
[REDACTED]		NA

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BASIC DESCRIPTION

No changes have been observed at Chi-lin Cement Plant since December 1969, the date of the latest photography used in the previous report.

Smoke was seen coming from the eastern stack in April, June, and October 1970, indicating that its associated kiln was operating. The absence of smoke in December 1970 indicated that neither of the kilns was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Chi-lin Cement Plant 2		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
52TCD079634	43-54-05N 126-36-25E	None	None
MAP REFERENCE			
USATC, Series 200. Sheet M0290-3HL, 3rd ed, Jul 65, Scale 1:200,000			
(SECRET)			
LATEST IMAGERY USED		NEGATION DATE (if required)	
		NA	

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BASIC DESCRIPTION

No changes have been observed at Chi-lin Cement Plant 2 since December 1969, the date of the latest photography used in the last report.

The single kiln at this plant was operating in April and December 1970, as indicated by smoke coming from its stack.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chien-ko Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
--	32-05-00N 105-06-00E	
MAP REFERENCE		
ACIC. Tactical Pilotage Chart, Sheet G-9D, May 67, Scale 1:500,000 (UNCLASSIFIED)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

NOTICE

Chien-ko Cement Plant has not been seen on photography since August 1969, the date of the latest photography used in the previous report. At that time, this plant had three rotary kilns.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chiu-chiang Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RMH120753	29-36-25N 116-05-30E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0493-12HL, 2nd ed, Oct 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

A small support building has been added to Chiu-chiang Cement Plant since December 1969, the date of the latest photography used in the previous report. The building is located southwest of the kiln.

Smoke coming from the stack indicated that the only kiln at this plant was operating on both referenced missions.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Feng-feng Cement Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		25X1
50SKR502383	36-26-00N 114-10-20E		
MAP REFERENCE			
15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000			
(SECRET)			25X1
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	

BASIC DESCRIPTION

No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.

Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in December 1970, indicating that only one kiln was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Fu-shun Cement Plant		CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
51TWG719326	41-51-01N 123-51-49E

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MAP REFERENCE

USATC, Series 200, Sheet M0290-IIHL, 4th ed, Jan 66, Scale 1:200,000
(SECRET)

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

No changes have been observed at Fu-shun Cement Plant since April 1969, the date of the latest photography used in previous reports.

Smoke from the stacks indicated that both kilns were operating in March and December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Huang-shih Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RLJ151448	30-13-22N 115-04-20E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0493-11HL, 4th ed, Jul 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

BASIC DESCRIPTION

No changes have been observed at Huang-shih Cement Plant since December 1969, the date of the latest photography used in the previous report.

The plant was not operating in August 1970. Smoke was coming from at least one stack in December 1970 and this obscured the other stack. At least one of the two kilns was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hu-chou Cement Plant		CH
UTM COORDINATES 51RTE221273	GEOGRAPHIC COORDINATES 30-56-42N 120-05-30E	
MAP REFERENCE ACIC. USATC, Series 200, Sheet M0492-6HL, 4th ed, Oct 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED --	NEGATION DATE (If required) NA	

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NOTICE

Hu-chou Cement Plant has not been seen on photography since December 1969, the date of the latest imagery used in the previous report. At that time, this plant had one rotary kiln.

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INSTALLATION OR ACTIVITY NAME			COUNTRY	
Kai-yuan Cement Plant			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.
48QUB210215	23-41-40N 103-14-38E		None	None
MAP REFERENCE				
548th RTG. USATC, Series 200, Sheet M0616-2HL, 4th ed, Sep 68, Scale 1:200,000				
(SECRET)				
LATEST IMAGERY USED			NEGATION DATE (If required)	

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BASIC DESCRIPTION

Kai-yuan Cement Plant is located at the southern edge of Kai-yuan, near the Kai-yuan Thermal Power Plant. The plant is road and rail served. No physical security measures are apparent. The plant occupies an area approximately 1,200 by 600 feet.

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This plant produces cement using the wet process. Raw materials are obtained from a nearby quarry which is connected to the plant by a conveyor. There are two exposed rotary kilns, each measuring approximately 385 feet (see Figure 4). A dust catcher serves each kiln. Major components of the plant include a primary grinding area, a slurry tank, five mixing and correcting tanks, a clinker storage building, eight final product storage silos, a shipping area, a final grinding area, and a coal receiving area.

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Construction of this plant began between March 1966 and January 1967. In January 1967, the kiln supports were in place and construction was under way on the clinker storage building. Excavations marked the positions of the slurry tank, the mixing and correcting tanks and the storage silos. The raw materials conveyor was not in place. No changes were apparent until November 1968. At that time, the slurry tank and conveyor were complete. The dust catchers, rail spurs, storage silos, and mixing and correcting tanks were under construction. Except for the kilns, the plant was complete in February 1969. The kilns were installed by March 1970.

The plant was first seen operating in March 1970, when heavy smoke was observed coming from both stacks. Smoke was only coming from one stack in April and June 1970, indicating that only one of the kilns was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Ku-shui Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49RFA178691	27-44-00N 112-12-00E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0497-5HL, 2nd ed, Nov 65, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED	NEGATION DATE (If required)	
--	NA	

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NOTICE

Ku-shui Cement Plant has not been seen on photography since September 1969, the date of the latest photography used in the previous report. At that time, this plant had two rotary kilns.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Kuang-chou Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49QGR292630	23-09-10N 113-14-15E	
MAP REFERENCE		
[REDACTED] USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale 1:200,000		
(SECRET, [REDACTED])		
LATEST IMAGERY USED		NEGATION DATE (If required)
[REDACTED]		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Kuang-chou Cement Plant since December 1969, the date of the latest photography used in the previous report.

Smoke coming from one stack indicated that only one of the four kilns at this plant was operating in July 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Kuei-yang Cement Plant 2		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
48RXE672385	26-33-21N 106-40-45E	
MAP REFERENCE		
15RTS. USATC, Series 200, Sheet M0496-10HL, 3rd ed, Oct 70, Scale 1:200,000 (SECRET/)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

BASIC DESCRIPTION

No apparent changes have been observed at Kuei-yang Cement Plant 2 since August 1969, the date of the latest photography used in the previous report. However, the poor quality of the March 1970 photography prohibited a detailed analysis of the plant.

The single kiln at this plant was not operating in March 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Kuei-yang Cement Plant 3		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48RXE664350	26-31-30N 106-40-15E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0496-10HL, 3rd ed. Oct 70. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Kuei-yang Cement Plant 3 since March 1969, the date of the latest photography used in the previous report.

Smoke was observed coming from the vicinity of the stacks on poor-quality photography in March 1970. This indicates that at least one of the four kilns was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Kun-ming Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48RTC600688	25-00-45N 102-37-20E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0496-17HL, 3rd ed, Jan 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Kun-ming Cement Plant since February 1969, the date of the latest imagery used in the previous report.

No smoke was coming from the stacks in March 1970 indicating that neither of the two kilns at the plant were operating.

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INSTALLATION OR ACTIVITY NAME			COUNTRY	
Kuo-kuo Cement Plant			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.
47RQV569445	26-35-55N 101-34-40E		None	None
MAP REFERENCE				
AMS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000 1st ed, 1954 (Unclassified)				
LATEST IMAGERY USED		NEGATION DATE (If required)		
		NA		

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BASIC DESCRIPTION

No apparent changes have been observed at Kuo-kuo Cement Plant since September 1969, the date of the latest imagery used in the previous report.

Smoke was coming from the stack serving the two kilns in November 1970, indicating that at least one of the kilns was operating.

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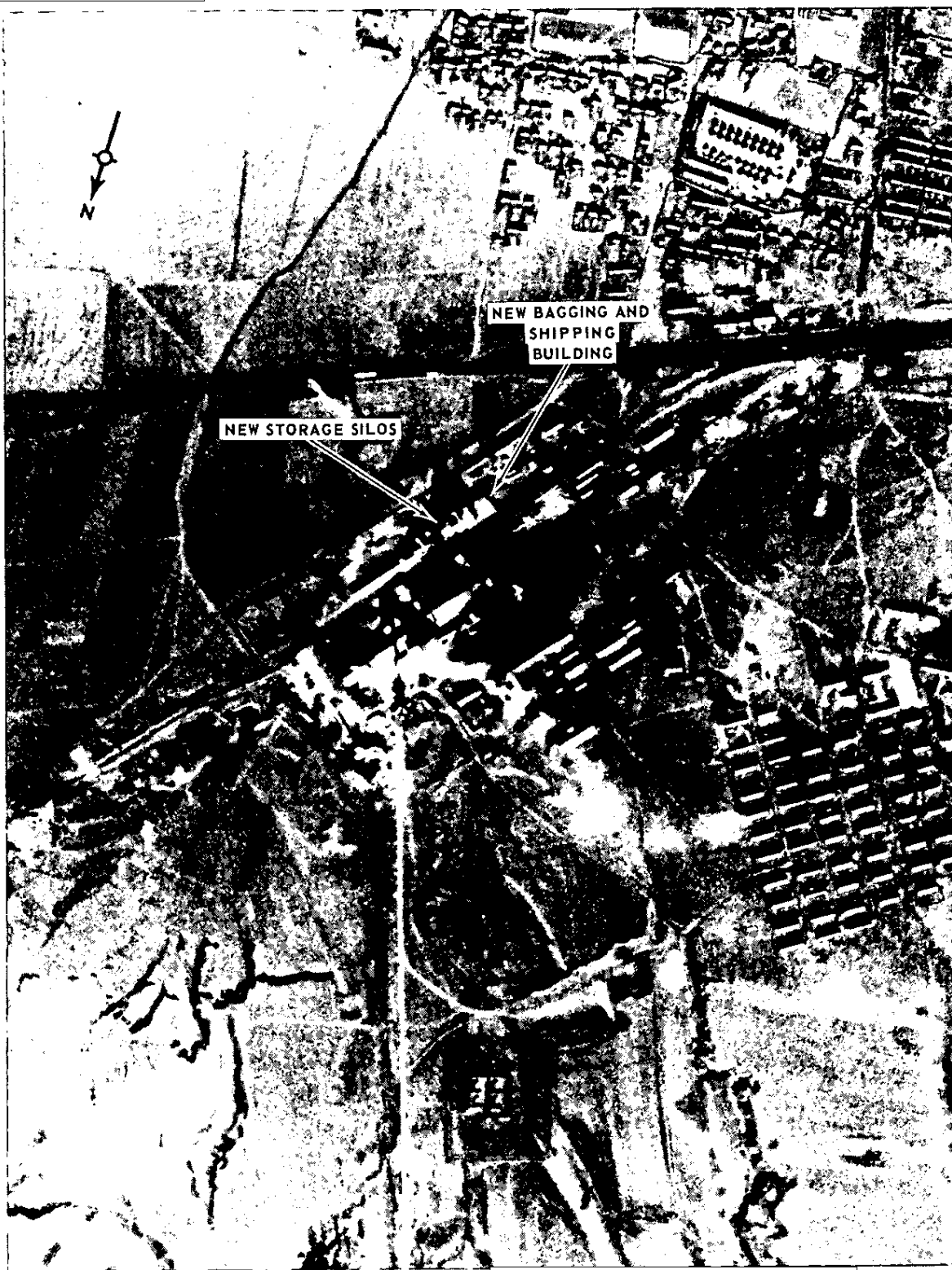


FIGURE 5. LIAO-YANG CEMENT PLANT

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Liao-yang Cement Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
51TWF285635	41-13-35N 123-20-15E	None	None
MAP REFERENCE			
548th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale 1:200,000 (SECRET)			
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	

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BASIC DESCRIPTION

Four storage silos and a bagging and shipping building have been completed at Liao-yang Cement Plant (see Figure 5) since December 1969, the date of the latest photography used in the previous report.

Smoke coming from the stack indicated that the single kiln at this plant was operating in March and December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Lin-ping Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51RTD339672	30-24-30N 120-13-45E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0492-6HL, 4th ed. Oct 67. Scale 1:200 000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

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NOTICE

Lin-ping Cement Plant has not been seen on photography since January 1970, the date of the latest imagery used in the previous report. Previous analysis indicated that this plant probably has one rotary kiln.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Liu-chou Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49RCS225963	24-22-20N 109-15-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200 Sheet M0497-22HL. 3rd ed. Mar 70. Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

NOTICE

Liu-chou Cement Plant has not been seen on photography since September 1969, the date of the latest photography used in the previous report. Previous analysis indicated that this plant has three rotary kilns.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Liu-li-ho Cement Plant		CH
UTM COORDINATES 50SMU161836	GEOGRAPHIC COORDINATES 39-35-51N 116-01-41E	
MAP REFERENCE ACIC. USATC, Series 200. Sheet M0381-1H1 4th ed, Nov 65. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Liu-li-ho Cement Plant since December 1969, the date of the latest photography used in the previous report.

Smoke was observed coming from both stacks in October 1970, indicating that the two kilns at this plant were operating. The plant did not appear to be operating in November 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Miao-tou-chai Cement Plant Shih-fu		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49SEJ935439	34-44-00N 112-01-00E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0385-8HL, 3rd ed, Jan 70, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Miao-tou-chai Cement Plant Shih-fu since December 1969, the date of the latest photography used in the previous report.

Dust coming from the two dust catchers indicated that both of the kilns at the plant were operating in July 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Mu-tan-chiang Cement Plant Wen-chuan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
52TEE383185	44-25-24N 129-28-58E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0283-25HL, 4th ed, Oct 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

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BASIC DESCRIPTION

No changes have been observed at Mu-tan-chiang Cement Plant Wen-chuan since December 1969, the date of the latest photography used in the previous report.

The single kiln at the plant was operating in December 1970, as indicated by smoke coming from the stack.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ching Cement Plant Kiang-nan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SPL864590	32-09-25N 118-58-35E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0386-23HL, 4th ed. Aug 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Nan-ching Cement Plant Kiang-nan since December 1969, the date of the latest photography used in the previous report.

Neither of the two kilns at the plant was operating in May 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ching Cement Plant Lung-tan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SPL953603	32-10-07N 119-04-01E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0386-23HL, 4th ed, Aug 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

No apparent changes have been observed at Nan-ching Cement Plant Lung-tan since December 1969, the date of the latest photography used in the previous report.

None of the three and possibly four rotary kilns at this plant were operating in May 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ping Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50RPE156436	26-36-25N 118-09-35E	
MAP REFERENCE		
548th RTG. USATC, Series 200, Sheet M0498-10HL, 3rd ed, Apr 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

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NOTICE

Nan-ping Cement Plant has not been seen on photography since November 1968, the date of the latest photography used in previous reports.

Previous analysis indicated that this plant has two rotary kilns.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
O-mei Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48RUH637619	29-29-40N 103-34-40E	
MAP REFERENCE		
2RTS. USATC, Series 200, Sheet M0495-17HL, 3rd ed, Oct 70, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)

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BASIC DESCRIPTION

O-mei Cement Plant is located approximately 10.5 nm southwest of Lo-shan, and 8 nm southeast of O-mei. The plant is road and rail served. There are no apparent physical security measures. The plant occupies an area approximately 1,600 by 1,000 feet or about 37 acres.

The plant will use the wet process to produce cement. Raw materials will be brought in by conveyor, truck, and rail. The plant has two exposed rotary kilns, each measuring 565 by 15 feet (see Figure 6). These are the largest rotary cement kilns in China. Each kiln is served by a large masonry stack.

Other major plant components include a raw materials receiving and grinding facility, 12 mixing and correcting tanks, two slurry tanks under construction, 12 final product storage silos, a bagging and shipping building, a coal preparation unit, a finishing mill, and a clinker storage building.

The plant was started between May 1967 and August 1968. In August 1968, only the kiln supports and ground scars for buildings were visible. Building foundations were evident on coverage of December 1968. With the exception of the slurry tanks, the plant appeared externally complete in June 1970. It has not been observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pen-chi Cement Plant Kung-yuan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWF629720	41-18-11N 123-44-46E	
MAP REFERENCE		
548th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No changes have been observed at Pen-chi Cement Plant Kung-yuan since January 1970, the date of the latest photography used in the previous report.

The plant did not appear to be operating in March 1970. In December 1970, smoke was coming from the stack serving the two kilns, indicating that at least one kiln was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pen-chi Cement Plant South		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWF602680	41-15-56N 123-43-10E	
MAP REFERENCE		
548th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Pen-chi Cement Plant South since January 1970, the date of the latest photography used in the previous report.

Haze covered most of the plant in March 1970, preventing a determination of its operational status. Smoke was observed coming from both stacks in December 1970, indicating that the two kilns were operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Shang-hai Cement Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		
51RUE530488	31-09-40N 121-27-37E		
MAP REFERENCE			
2nd RTS. USATC, Series 200. Sheet M0492-7HL. 3rd ed. May 68. Scale 1:200,000 (SECRET)			
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	

BASIC DESCRIPTION

No apparent changes have been observed at Shang-hai Cement Plant since December 1969, the date of the latest photography used in the previous report.

The four northern kilns were operating in March 1970, as indicated by smoke coming from their stacks. Haze obscured the southern kiln. In April 1970, only the southern kiln was operating. On 6 November 1970, the southern kiln and one of the northern kilns were operating. No smoke was observed at the plant on 7 November 1970, but dust was coming from the grinding units. The operational status of the plant could not be determined in October 1970 due to haze and poor-quality photography. All five kilns were seen operating in December 1970 and January 1971.

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INSTALLATION OR ACTIVITY NAME			COUNTRY	
Shen-yang Cement Plant			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.
51TWG445331	41-51-10N 123-32-05E		None	None
MAP REFERENCE				
[] USATC, Series 200, Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000 (SECRET) []				
LATEST IMAGERY USED			NEGATION DATE (If required)	
[]			NA	

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BASIC DESCRIPTION

Shen-yang Cement Plant is located on the northeastern edge of Shen-yang, approximately 4.5 nm north of Shen-yang/Tung-ta Airfield [] and 4.5 nm east of Shen-yang/Pei-ling Airfield []. An unidentified processing facility is located immediately north of the plant. The plant is road and rail served and has no apparent physical security measures. It occupies an area approximately 625 by 485 feet, or 7 acres.

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The plant produces cement using the wet process. Raw materials are brought to the plant by rail. The plant has one rotary kiln enclosed in a kiln building measuring approximately 170 by 30 feet (see Figure 7). Other major plant components include two raw materials storage buildings, a primary grinding unit, a coal preparation facility, a clinker storage building, a finishing mill, four mixing and correcting tanks, four final product storage silos, and a bagging and shipping building.

The plant was complete when first observed on photography of August 1963. An addition to the clinker storage building was built between July and September 1964.

Smoke was seen coming from the stack in October 1969, indicating the plant was operating. This was the only time it has been observed operating.

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FIGURE 8. TA-TUNG CEMENT PLANT,

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Ta-tung Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49SFQ810286	39-59-08N 113-07-10E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0382-3H1. 2nd ed. Jul 67. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

Construction has been observed at Ta-tung Cement Plant since October 1969, the date of the latest photography used in the previous report.

Two new stacks were built between 5 June and 27 July 1970. Each of the four kilns now has its own stack (see Figure 8).

Heavy smoke was seen coming from the two old stacks in March 1970, indicating that at least two kilns were operating. The plant was not operating in June 1970. In December 1970, smoke was coming from all four stacks indicating that all four kilns were operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tai-yuan Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49SFM255933	37-52-00N 112-25-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0382-13HL, 3rd ed, Jun 67, Scale 1:200,000 (SECRET, [REDACTED])		
LATEST IMAGERY USED		NEGATION DATE (If required)
[REDACTED]		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Tai-yuan Cement Plant since November 1969, the date of the latest photography used in the previous report.

One of the two kilns was operating in June 1970, as indicated by smoke coming from one of the two stacks.

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[REDACTED]

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tang-shan Cement Plant Chi-hsin		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SPJ036878	39-37-47N 118-12-00E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0381-2HL, 3rd ed, Jul 70, Scale 1:200,000 (SECRET, [REDACTED])		
LATEST IMAGERY USED		NEGATION DATE (If required)
[REDACTED]		NA

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BASIC DESCRIPTION

No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.

Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced imagery, indicating that at least three of the six kilns were operating.

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Ting-shu-chen Cement Plant

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

COMIREX NO.

NIETB NO.

50RQK695628

31-16-05N 119-49-50E

None

None

MAP REFERENCE

8th RTS. USATC, Series 200, Sheet M0493-5HL, 3rd ed, Apr 68, Scale 1:200,000

(SECRET)

LATEST IMAGERY USED

NEGATION DATE (If required)

BASIC DESCRIPTION

Ting-shu-chen Cement Plant is located approximately 1 nm northwest of Ting-shu-chen and 6 nm south of I-hsing. The plant is road and water served, and is secured by a wall. The plant occupies an area approximately 550 by 510 feet, or about 13 acres.

This plant produces cement using the wet process. Raw materials are obtained from a quarry next to the plant.

The plant has two rotary kilns, each measuring approximately 185 (see Figure 9). One stack serves both kilns. Other major plant components include a primary and finished grinding building, five mixing and correcting tanks, a coal receiving and preparation building, a bagging and shipping building, and five final product storage silos. There are also several small support buildings in the plant area.

With the exception of the kilns, construction of the plant was started and completed between December 1964 and September 1965. The kilns were in place in October 1965.

The plant was not seen operating until March 1966. Smoke was coming from the stack in March and September 1966, May 1967, and April 1970, indicating that at least one kiln was in operation. No evidence of plant operation was observed in November 1968 and February and December 1969.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tzu-po Cement Plant Nan-ting		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNR952680	36-45-10N 118-04-08E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0381-22HL. 4th ed. Jul 68. Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

Minor changes have been observed at Tzu-po Cement Plant Nan-ting since December 1969, the date of the latest photography used in the previous report.

In October 1970, the arm of the northern slurry tank was dismantled. In addition, the northern dust catcher appeared to be undergoing reconstruction, but this activity could not be positively identified.

Smoke was coming from at least two of the four stacks in May, November and December 1970, indicating that at least two kilns were operating. The smoke obliterated the other stacks. Smoke was coming from one stack in October 1970, indicating that only one of the four kilns was operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Wu-chang Cement Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		25X1
50RKJ532919	30-38-00N 114-26-00E		
MAP REFERENCE			
(SECRET) USATC, Series 200. Sheet M0493-6HL. 4th ed. Jan 68, Scale 1:200,000			25X1 25X1
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	25X1

BASIC DESCRIPTION

A new kiln has been under construction at Wu-chang Cement Plant since October 1969, the date of the latest photography used in the previous report.

The new kiln is being constructed immediately across the rail spur from the old plant (see Figure 10). A large new building was observed in the early stage of construction in the same area. This building will probably house additional plant components. Construction materials, kiln supports, and kiln sections have been observed on the ground in this location on all referenced photography.

Smoke coming from its associated stack indicated that the original kiln was operating on all referenced photography except that of January 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-lu-mu-chi Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
45TWJ467443	43-44-58N 087-34-55E	
MAP REFERENCE		
2nd RTS. USATC, Series 200. Sheet M0330-3HL. 3rd ed. Jun 69. Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Wu-lu-mu-chi Cement Plant since January 1970, the date of the latest photography used in the previous report.

Both kilns were operating on all referenced imagery except December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-sung Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51RUE532709	31-21-42N 121-27-20E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

25X1

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BASIC DESCRIPTION

No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.

A moderate amount of smoke coming from the stack indicated that the kiln was operating in March and December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Yao-hsien Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
49SCJ145675	34-54-20N 108-59-20E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0384-10HL, 2nd ed, Jun 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No apparent changes have been observed at Yao-hsien Cement Plant since December 1969, the date of the latest photography used in the previous report.

Smoke was coming from three stacks in May 1970, indicating that all three kilns at this plant were operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Yung-teng Cement Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48SUR408773	36-49-50N 103-13-00E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0383-16HL, 2nd ed, Sep 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
--		NA

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NOTICE

The Yung-teng Cement Plant has not been seen on photography since December 1969, the date of the latest photography used in the previous report.

Previous analysis has indicated that this plant has four rotary kilns.

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